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DATE: Tuesday, January 17, 2006

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		<i>DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI; PLUR=YES; OP=ADJ</i>	
<input type="checkbox"/>	L13	neuro\$6 same L10	26
<input type="checkbox"/>	L11	phosphatase? same L10	21
<input type="checkbox"/>	L10	(gene or sequence or polynucleotide or clone or recombinant) same L9	3531
		((lipid adj protein adj phosphatase) or (phosphatidate adj phosphatase) or (phosphatidic	
<input type="checkbox"/>	L9	adj acid adj phosphatase) or (acid adj phosphatidyl adj phosphatase) or (phosphatic adj acid adj hydrolase)or lpp or prg)	10871
<input type="checkbox"/>	L8	treat\$5 same L7	5
<input type="checkbox"/>	L7	neuro\$5 same L6	31
<input type="checkbox"/>	L6	(gene or sequence or polynucleotide or clone or recombinant) same L5	165
		((lipid same protein same phosphatase) or (phosphatidate same phosphatase) or	
<input type="checkbox"/>	L5	(phosphatidic same acid same phosphatase) or (acid same phosphatidyl same phosphatase) or (phosphatic same acid same hydrolase))	324

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for

NiceZyme View of ENZYME: EC 3.1.3.4

Official Name
Phosphatidate phosphatase.
Alternative Name(s)
Phosphatidic acid phosphatase.
Reaction catalysed

A 3-sn-phosphatidate + H₂O <=> a 1,2-diacyl-sn-glycerol + phosphate

Cross-references
Biochemical Pathways;
map number(s)

F6 ; D8

BRENDA

3.1.3.4

PUMA2

3.1.3.4

PRIAM enzyme-specific profiles

3.1.3.4

Kyoto University LIGAND chemical database

3.1.3.4

IUBMB Enzyme Nomenclature

3.1.3.4

IntEnz

3.1.3.4

MEDLINE

Find literature relating to 3.1.3.4

MetaCyc

3.1.3.4

UniProtKB/Swiss-Prot

Q05521, DPP1_YEAST; 088956, LPP1_CAVPO; 014494, LPP1_HUMAN;
Q61469, LPP1_MOUSE; P60588, LPP1_PIG; 008564, LPP1_RAT;
Q04396, LPP1_YEAST; 043688, LPP2_HUMAN; Q9DAX2, LPP2_MOUSE;
Q8K593, LPP2_RAT; 014495, LPP3_HUMAN; Q99JY8, LPP3_MOUSE;
P97544, LPP3_RAT; Q9V576, WUN_DROME;

[View entry in original ENZYME format](#)

All UniProtKB/Swiss-Prot entries referenced in this entry, with possibility to download in different formats, align etc.

All ENZYME / UniProtKB/Swiss-Prot entries corresponding to 3.1.3.-

All ENZYME / UniProtKB/Swiss-Prot entries corresponding to 3.1.-

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ENZYME: 3.1.3.4

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Entry	EC 3.1.3.4	Enzyme
Name	phosphatidate phosphatase; phosphatic acid phosphatase; acid phosphatidyl phosphatase; phosphatic acid phosphohydrolase	
Class	Hydrolases Acting on ester bonds Phosphoric monoester hydrolases	
Sysname	3-sn-phosphatidate phosphohydrolase	
Reaction	A 3-sn-phosphatidate + H2O = a 1,2-diacyl-sn-glycerol + phosphate [RN:R02239 R06520 R06521 R06522]	
Substrate	3-sn-phosphatidate [CPD:C00416] H2O [CPD:C00001]	
Product	1,2-diacyl-sn-glycerol [CPD:C00641] phosphate [CPD:C00009]	
Pathway	PATH: map00561 Glycerolipid metabolism PATH: map00564 Glycerophospholipid metabolism PATH: map00600 Glycosphingolipid metabolism	
Ortholog	KO: K01080 phosphatidate phosphatase	
Genes	HSA: 8611(PPAP2A) 8612(PPAP2C) 8613(PPAP2B) MMU: 19012(Pgap2a) 50784(Pgap2c) 67916(Pgap2b) RNO: 192270(Pgap2b) 246115(Pgap2c) 64369(Pgap2a) DME: CG8804-PA(CG8804) CG8804-PB(CG8804) TBR: Tb10.389.0020 Tb10.61.2970 TCR: 511277.370	
Reference	1 Smith, S.W., Weiss, S.B. and Kennedy, E.P. The enzymatic dephosphorylation of phosphatidic acids. J. Biol. Chem. 228 (1957) 915-922.	
Other DBs	IUBMB Enzyme Nomenclature: 3.1.3.4 ExPASy - ENZYME nomenclature database: 3.1.3.4 ERGO genome analysis and discovery system: 3.1.3.4 BRENDA, the Enzyme Database: 3.1.3.4 CAS: 9025-77-8	
LinkDB	All DBs	

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DBGET integrated database retrieval system, GenomeNet